Sanjay Satish Shekar

+1 (214) 843-1392 sanjaysatishshekar@gmail.com linkedin.com/in/sanjay-ss sanjaysatishshekar.github.io

Education

The University of Texas at Arlington **August 2022 – May 2024**
Masters of Science in Computer Science *CGPA: 4.00 / 4.00*
Courses: Artificial Intelligence, Cloud Computing and Big Data, Distributed Systems, Design and Analysis of Algorithms, Data Analysis and Modeling Techniques.

PES University **August 2014 – May 2018**
Bachelor of Science in Computer Science *CGPA: 8.06 / 10*
Specialized in Algorithms and Computing Models
Courses: Parallel Computing, Web Technologies, Machine Learning, Digital Image Processing.

Work Experience

Infosys Limited **July 2018 – July 2022**
Specialist Programmer

- Created **REST APIs** for a real-time inventory management system in **Spring Boot** for unique product categories to reduce the time taken for manual inventory check by ∼**50%**
- Developed a responsive Web UI using **React**, enhancing user engagement for global business and sales teams by ∼**25%**
- Implemented **Time-based One-Time Password** authentication for all team-built services, enhancing overall security and restricting unauthorized access
- Engineered **REST endpoints** to automate the downloading of service-related logs globally, with **Spring Boot** and **React**, reducing manual log retrieval time by ∼**80%**
- Built a **Flask** app to analyze and document errors generated by services, resulting in a ∼**90%** improvement in error tracking efficiency and providing detailed error statistics for a comprehensive issue tracker
- Achieved a **4x** enhancement in app response time by strategically refactoring and indexing the **SQL** table
- Integrated **OSSF** Scorecard for **vulnerability checks** in the development pipeline, bolstering application stability
- Containerized the above tool using **Docker** and orchestrated deployment with **Kubernetes** for streamlined management and **scalability**
- Implemented **REST APIs** to handle real-time order-related data in **Spring Boot**
- Implemented front-end for the same in **React** using **Redux** and other libraries to provide a graphical representation

Projects

Big Data Analytics | *Hadoop, Spark* **March 2023**

- Implemented Page Rank Algorithm using Spark for a distributed environment setup
- Evaluated the relationship between word usage and heart disease mortality rate using Spark

Static Reflection in C++ | *C++, Clang, LLVM* **May 2018**

- Implemented library `std::reflexpr` to enable the exposure of static reflection for the developer
- Implemented underlying compiler intrinsic APIs `__reflection_intrinsic` for the reflection libraries
- Implemented 'for constexpr' for unrolling of a range-based for loop

Technical Skills

Languages: Java, Python, JavaScript
AWS: S3, EC2
Big Data Tools: Hadoop, Spark
Development Frameworks: Spring boot, Flask, React
Testing tools and Frameworks: JUnit
Databases: MongoDB, MySQL, PostgreSQL
Monitoring Frameworks: Splunk
Developer Tools: VS Code, Eclipse, Intellij
Misc Tools: git, MS Office Suite, Maven

Awards/Achievements

- Won the '**Be the Navigator to Client - Best Project/Solution**' award from **Infosys** in 2021 for the project **RealtimeOrderAnalyticsDataService**
- Won the '**Best Student Project Award**' for the year 2018 from **AMD India** for the project **Static Reflection in C++**